

19981101.qrp v01_n263.qrs.981101

Date: Sun, 1 Nov 1998 19:03:23 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1263

QRP-L Digest 1263

Topics covered in this issue include:

- 1) [23735] zombie-Elvis has left the bldg!
by talljazz@teleport.com (Dan Presley)
- 2) [23736] 40-M QRM/N??
by RangerSF5@aol.com
- 3) [23737] ANNOUNCING--N/T+ FOX Hunt
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 4) [23738] Doorprizes arrived! TKS Paul Harden!!!!
by "John Burnley" <burnley-ia@worldnet.att.net>
- 5) [23739] Rules for events
by kq0i@juno.com (Mark R Milburn)
- 6) [23740] ZOMBIE SHUFFLE - results and experiments with finger tuning
(LONG)
by Bob Painter <turnkey@exo.com>
- 7) [23741] QRP Stuff for sale
by Dan Copeland <dcopeland@wwn.net>
- 8) [23742] Zombie Shuffle - tuff going in Minnesots
by W9SUL <pugrad@millcomm.com>
- 9) [23743] Zombie Shuffle
by Bob Hightower <ki7mn@extremezone.com>
- 10) [23744] Lost files--need help
by "Terry Bassett" <mutabut@net66.com>
- 11) [23745] 2N2/40 Update #2
by "Jim Kortge, K8IQY" <jokortge@cwix.com>
- 12) [23746] Wanted: T-T Argo 509
by k7sz@epix.net
- 13) [23747] Todays Solar Report (RSGA)
by Paul Harden <pharden@aoc.nrao.edu>
- 14) [23748] 10 Meter Beacon Sub-band
by wb2vuo@juno.com (W. K. Hibbert)
- 15) [23749] Doorprizes arrive!!!!!! Thanks Paul Harden!
by "John Burnley" <burnley-ia@worldnet.att.net>
- 16) [23750] Dan Tayloe's phasing mixer
by "Bob Tellefsen" <n6wg@earthlink.net>
- 17) [23751] AL7JK on 10 mtrs right now (2340Z)
by Jim Larsen AL7FS <larsennc@alaska.net>
- 18) [23752] Re: ARRL SS Soon
by Vic Rosenthal <rakefet@rakefet.com>

- 19) [23753] FS: Rare FT-757SX QRP rig
by n3bj@hotmail.com
- 20) [23754] Tayloe Mixer, it lives!
by Steven Weber <kd1jv@moose.ncia.net>
- 21) [23755] Where Do I Hang My Hat?
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 22) [23756] OFFICIAL ZOMBIE SHUFFLE LOG
by k5zty@juno.com
- 23) [23757] re: lost files--need help
by "Terry Bassett" <mutabut@net66.com>
- 24) [23758] Zombie test results from Tennessee
by Conard Murray <ws4s@InfoAve.Net>
- 25) [23759] no digest today? (Sat)
by Mighty Mik <mitymik@hooked.net>
- 26) [23760] Ideas for using 300 ohm Twinlead?
by Ed Manuel <n5em@flash.net>
- 27) [23761] Re: Lost files--need help
by "Radman" <radman@best.com>
- 28) [23762] RE: Milliwatt computer clock rig
by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 29) [23763] "ZS" in there
by "cdd" <cdd@bellatlantic.net>
- 30) [23764] Re: Rules for events
by Monte Stark <ku7y@dri.edu>
- 31) [23765] Re: ANNOUNCING--N/T+ FOX Hunt
by KC5TJA <kc5tja@topaz.axisinternet.com>
- 32) [23766] Re: Dan Tayloe's phasing mixer
by KC5TJA <kc5tja@topaz.axisinternet.com>
- 33) [23767] Re: Scope Probes
by "Brad Hernlem" <alihernlem@hotmail.com>
- 34) [23768] CALLING all N/T+ Ops
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 35) [23769] Bird 43 Element Wanted
by "George T. Baker" <w5yr@swbell.net>
- 36) [23770] OK Zombie Blues
by William-McShan@ouhsc.edu (Mike McShan)
- 37) [23771] Need info on magnets
by RangerSF5@aol.com
- 38) [23772] Second Colorado Snowshoe Event 12/12/98
by "Marshall Emm" <mgemm@mtechnologies.com>
- 39) [23773] Re: Schematics for Elmer 200 on K5F0 Web page?
by Chuck Adams <adams@ticnet.com>
- 40) [23774] Re: Need info on magnets
by n3fel@juno.com (Howard D Rubin)
- 41) [23775] Re: Dan Tayloe's phasing mixer
by mikemo@ibm.net
- 42) [23776] Re: What's on 40m?
by DNT1@chrysler.com

- 43) [23777] Re: Ideas for using 300 ohm Twinlead?
by ARDUJENSKI@aol.com
- 44) [23778] Help w/KC-2 (no counter?)
by Steve/n0tu <n0tu@webaccess.net>
- 45) [23779] Re: Ideas for using 300 ohm Twinlead?
by wb8ygg@juno.com
- 46) [23780] Re: Dan Tayloe's phasing mixer
by w4bws@juno.com (Donald E Sanders)
- 47) [23781] re: Rules for events [Doghouse Sprint: Nov 21]
by "George Heron" <gheron@idt.net>
- 48) [23782] W9GR DSP filter
by Bruce Rattray <rattray@gpfn.sk.ca>
- 49) [23783] Re: Scope Probes
by RABRUNER@aol.com
- 50) [23784] RE: Dan Tayloe's phasing mixer
by "Johan Bodin" <sm6lkm.jbeab@swipnet.se>
- 51) [23785] 6, 10, 15 Quad?
by Bigbob97@aol.com
- 52) [23786] Re: W9GR DSP filter
by Bruce Rattray <rattray@gpfn.sk.ca>
- 53) [23787] Re: Dan Tayloe's phasing mixer
by John Levreault <jlevro@mediaone.net>
- 54) [23788] Re: Dan Tayloe's phasing mixer
by John Levreault <jlevro@mediaone.net>
- 55) [23789] Final announcement: ARS' November Spartan Sprint
by Richard Fisher <nu6sn@yahoo.com>
- 56) [23790] 4X multiplier chips, latest QRN
by borealis@juno.com (Philip G. Collier)
- 57) [23791] Re: Help w/KC-2 (no counter?)
by "Hugo W. Catta" <hugo@banet.net>
- 58) [23792] Band Condx
by Monte Stark <ku7y@dri.edu>
- 59) [23793] Solar battery charger
by jalbertin@juno.com (Jerry Albertin)
- 60) [23794] Re: Ideas for using 300 ohm Twinlead?
by "George T. Baker" <w5yr@swbell.net>
- 61) [23795] DK3 UPDATE 1-NOV-98 (very long)
by Chris Cartwright <ccart@dns.vidtel.com>
- 62) [23796] Socorro, NM Hamfest Nov. 7 reminder
by jaywa5whn@juno.com
- 63) [23797] Re: W9GR DSP filter
by "George Heron" <gheron@idt.net>
- 64) [23798] Re: [CW] Memorizing answers
by DENNISMO@aol.com
- 65) [23799] Re: W9GR DSP filter
by Arjen Raateland <Arjen.Raateland@vyh.fi>
- 66) [23800] Tayloe Mixer, X4 VFO thoughts
by Steven Weber <kd1jv@moose.ncia.net>

- 67) [23801] NOT QRP - need Chat (IRC) help
by wr.moore@worldnet.att.net
- 68) [23802] Re: Solar battery charger
by Andy Fox <foxes@theriver.com>
- 69) [23803] The Amazing and Wonderful FCC...My Friend
by nhoop@centuryinter.net (N H)
- 70) [23804] Re: The Amazing and Wonderful FCC...My Friend
by Paul Harden <pharden@aoc.nrao.edu>
- 71) [23805] BEAM - RE:Ideas for 300 ohm Twinlead
by Michael Melland <badger@vbe.com>
- 72) [23806] Thanks To All
by RangerSF5@aol.com
- 73) [23807] 40-M qrp for sale
by RangerSF5@aol.com
- 74) [23808] An interesting QSO on 30m
by nilsbull@juno.com (Nils R Young)
- 75) [23809] DX Again! D2BB
by Jess Gypin <jessqrp@concentric.net>

Date: Sat, 31 Oct 1998 15:10:03 -0800
From: talljazz@teleport.com (Dan Presley)
To: qrp-l@LeHigh.edu
Subject: [23735] zombie-Elvis has left the bldg!
Message-ID: <v0153050ab26147e70f7f@[204.202.173.221]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well, sorry guys I wasn't able to work more of you; both my schedule & band conditions conspired against the ol'king. I started cq'ing around 0000Z with no luck until about 0100. Worked a few until 0145, then came back for a bit around 0300 for a few minutes. I did turn the radio on at 0900 when I returned; the band was nice & quiet-too quiet! Nobody but a true zombie would be up then, altho the band was in very good shape. Maybe next year we'll go portable from Graceland.
Dan "Elvis" Presley-N7CQR

Date: Sat, 31 Oct 1998 19:46:35 EST
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [23736] 40-M QRM/N??
Message-ID: <febb49a7.363baf6b@aol.com>
Mime-Version: 1.0

Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Guys/gals,

I have been reading a lot about the QRN/QRM on 40-M.

Well here in NJ the last two days 40-M was bad but cleared up at night and DX was VERY GOOD!!

However, last night a lot of stations seemed like an echo and strong stations were getting covered up with a rough hissing type of qrn.

I was still able to work the West coast on 4 watts and had a short qso with N6GL.

He gave me a 569.

I also worked a total of 22 EU countries and then I see all this mail about 40-M being dead.

I live 2 blocks off the Delaware river and my antennas are appx 65 feet up.

Can that river be acting as some sort of reflector to my advantage?

Can someone give me any information on this?

Thank You

Bob

Date: Sat, 31 Oct 1998 19:46:53 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: //QRP-L Discussion Group <QRP-L@Lehigh.edu>, "+Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [23737] ANNOUNCING--N/T+ FOX Hunt
Message-ID: <199810311949_MC2-5EB5-7F5E@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Gang:

By popular demand, we are pleased to announce:

1998/1999 QRP-L Novice/Tech Foxhunt

To be managed this year by:

--Doc Lindsey/K0EVZ
DSBF

P.O.Box 7187
Bismarck, ND 58507
E-Mail 70511.3041@compuserve.com

We expect to get this N/T+ hunting season underway very soon. Once I have the list of N/T+ FOXes already signed up, we should be rolling soon thereafter. I hope the first hunts will be this week :-).

As will be seen, each N/T+ op arranges and publishes his/her own schedule. Be on the lookout for their periodic postings.

Please plan now to take part in as many hunts as possible. The object is to help these FOXes upgrade to General (and beyond!) as well as to encourage them.

Rules:

N/T ops are encouraged to get on the air as a FOX and make as many two-way QRP contacts as possible over the course of the event.

The N/T FOX may operate at ANY time/day that they desire. The only stipulations:

- 1) Two Hour time limit per foxhunt.
- 2) Two foxhunt sessions per fox, per week.
- 3) The operating time be approved by K0EVZ.
- 4) The N/T Fox posts a sked to QRP-L 48 hours PRIOR to their foxhunt.

Scoring:

The N/T fox gets one point for EVERY QS0.

The HOUND gets a TWO point BONUS that will be added to their QRP-L Foxhunt score for EVERY N/T FOX that they work (see note).

NOTE: We encourage the hounds to work each N/T Fox every week and give them a point but the Hound will only get the two point bonus *once* for each N/T Fox worked.

B+TW, we still have space for additional N/T+ ops. Perhaps you could encourage someone to join in. If so, they can simply e-mail me and I will contact them.

Tks es good hunting, everyone!

72/73,
--Doc Lindsey/K0EVZ

DSBF
P.O. Box 7187
Bismarck, ND 58507
E-Mail 70511.3041@compuserve.com

Date: Sat, 31 Oct 1998 15:16:05 -0600
From: "John Burnley" <burnley-ia@worldnet.att.net>
To: <IaQRP-L@divis17.ped-gen.uiowa.edu>
Cc: <qrp-l@lehigh.edu>
Subject: [23738] Doorprizes arrived! TKS Paul Harden!!!!
Message-ID: <19981031211648.TRWV3160@burnley-ppp.phibred.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Boy was I getting nervous! I thought the mail system had devoured another goodie package (it has happened before). So tomorrow at the Des Moines hamfest, the Iowa QRP Club will be giving away an autographed copy of 'The Electronic Data Book for Homebrewers and QRPers' by Paul Harden (NA5N). Paul generously donated the copy for our QRP table doorprize. That's the great thing about Paul. Not only does he keep us up-to-date with postings (on solar activity with great explanations) on QRP-L, put together the MFJ-90's Newsletter, QRPP printing.... I think you are getting the idea (this guy is super busy promoting QRP) but he is always helping clubs and individuals behind the scenes. I didn't ask Paul for the gift, he just did it when he heard we were having our tables. But that's not all! We also have Zombie badges (famous in their own right) to give away. So drop by the Iowa QRP table tomorrow (November 1, 1998) at the Iowa State Fairgrounds in Des Moines (4-H Building) and register for this great book. If you do any building at all, you'll soon see why it is a great addition to the bench. Or stop by to get a Zombie badge (while supplies last). Our thanks again to Paul!

72/73, John NU0V

Date: Sat, 31 Oct 1998 15:05:10 EST

From: kq0i@juno.com (Mark R Milburn)
To: qrp-1@lehigh.edu
Subject: [23739] Rules for events
Message-ID: <19981031.200312.5143.0.KQ0I@juno.com>

I haven't seen any rules or summaries on the operations for:

LI/NJ QRP Doghouse Nov 11-12
Holiday Spirits Homebrew Sprint Dec 6
Colorado Snow Shoe Run Dec 12

Would like them if you have them so I can get them printed in our club newsletter ...lead time to publication, you know.

Thanks.

72/73, Mark, KQ0I Des Moines, Iowa EN31
Packet: kq0i@w0ak.#cia.ia.usa.na
e-mail: kq0i@juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 31 Oct 1998 12:00:03 -0800
From: Bob Painter <turnkey@exo.com>
To: qrp-1@lehigh.edu
Subject: [23740] ZOMBIE SHUFFLE - results and experiments with finger tuning
(LONG)
Message-ID: <199810311959.LAA21566@ns1.snni.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to all shufflers who tried working up in the novice/tech+ band of 40M.

Listened and called CQ from 0300 to 0500 UTC usually around 7.113
No success. Listened with a radio shack DX394, and the 7.000 to 7.040
area had typically ten or so QSO's in progress. Heard one ham calling CQ
at 7.006 - didn't get his/her call sign, and can't respond in that band with
current license (and current range in the SW40+ rig). Then swung up
to the novice band, and it was "dead".

Earlier in the week, I had posted a tuning range starting at 7.106 - and that was true, at that time. The old setup was as follows: For frequency readout, was using the Digital Dial and a phono plug style cord on one end (to mate with the Digital Dial) and two clip leads on the other end. So, with the lid of the 40+, I connected the hot side thru a 120 pf cap to R17 (emitter of the oscillator). This provided about 800 millivolts on the counter end. Originally tried 22 pf and had too weak a signal, 1000 pf and killed the oscillator.

In a desire to have a less clumsy setup, a phono jack was mounted in the rear panel of the 40+. Then a short wire from there to the 120 pf cap. Buttoned it up, and it worked fine, although the tuning range now started at 7.1084 -- No big deal -- Until I realized that Paul had requested folks to occasionally look at 7.106 for slow moving zombies. Thinking that the change in freq counter hookup was responsible for the change, I changed back to the clip lead affair (about 1/2 hour before start time). In the process, one leg fell off the 120 pf cap - so had to put another one in. Used NPO - so pretty decent stuff. Still had 7.1084 for the lowest tuning range. What to do? what to do? -- Rules suggested 7.106 and I had posted (later) 7.113 to 7.123.

Solution - found by holding my finger on toroid L1 (connected thru a cap to the base of the oscillator) and wiggling it about, I could go as low as 7.105! At first, I thought this was too stupid for me to do. But after a while, I decided it wasn't. So, holding one zombie finger on the toroid with my eyes on the freq counter, I started sending CQ on "about" 7.106. Got to thinking, zombies do this occasionally, that if someone actually came back to me, I would be in a predicament. - You see, the frequency tuning finger is on the same hand I write with. As it happens, no one came back to that "stable" CQ.

Sometime later, I almost jumped out of my chair after calling CQ on 7.113.
- There

was another signal HE MUST HAVE HEARD ME, and now is coming back!
Oh boy!, So I try to copy what he is sending - CQ CQ CQ CQ I thing I dozed off before his callsign came. When he finished, I called a short CQ only to notice that he started sending again before I finished - with another CQ. I don't think he ever heard me. Never did get a contact.

Date: Sat, 31 Oct 1998 19:04:15 -0600
From: Dan Copeland <dcopeland@wwn.net>
To: qrp-1@Lehigh.EDU
Subject: [23741] QRP Stuff for sale
Message-ID: <00555525019302@wwn.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

This list is incredible. Here is what I have left:

1. OHR - 100A 20m This radio is about 6 months old and works great \$100.00 shipped conus.
2. MFJ-422B keyer. This is the unit that mounts on a Bencher paddle. \$20.00 shipped conus.
3. MFJ-812B VHF watt meter. \$10.00 shipped conus.

I could have sold a truck load of Heath SP-99 speakers.

tnx & 72's
de Dan

Daniel Copeland KF00V
dcpeland@wnn.net

QCWA Webmaster* ARRL-life member* QRP-L 1004
ARCI - 9670, Norcal 38S, MFJ 9040, OHR 100A/20
<http://www.qcwa.org> | <http://www.dcpeland.com>
"I want to die peacefully in my sleep like my grandfather,
not screaming in terror like his passengers."

Date: Sat, 31 Oct 1998 16:44:36 -0600
From: W9SUL <pugrad@millcomm.com>
To: qrp-l@lehigh.edu
Subject: [23742] Zombie Shuffle - tuff going in Minnesots
Message-ID: <1.5.4.32.19981031224436.006d1b70@millcomm.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greeting fellow Zombies,

Despite the terrible band conditions, I had tons of fun and am already looking forward to next year's Zombie Shuffle!!!!

I worked the first 3 hours of the event... that's all I could stand. Despite band conditions, I was able to eek out 13 (that's right... 13) contacts with fellow Zombies.

The contacts included 3 Grand Zombies, only 2 prime Zombie numbers (drat... I gave out my prime Zombie number (i.e., 149) to the lucky 13 who made it

thru the noise), and one contact on 80 meters.

I checked the higher bands... but nada. I also checked the N/T+ section of 40 meters on the hour and half-hour, but again nothing. Maybe better luck next year.

Thanks to Paul - NA5N for organizing the 'event' and to all the others that were involved... before and during the Shuffle. Maybe the suggested tax-time 'event' should be on April 16th... some Zombies may still be working on forms the night of the 15th.

Till next year's event...

Boo and 72 Dave - W9SUL Zombie # 149 Rochester, MN

Date: Sat, 31 Oct 1998 13:59:33 +0000
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-l@lehigh.edu
Subject: [23743] Zombie Shuffle
Message-ID: <199810312051.NAA23543@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well, I _do_ feel better this morning. Last night, after battling the qrm and trying to catch Zombies, while, at the same time, trying to help install Win98 on Bertie's PC, I was really disgusted.....couldn't hear much, and managed to complete only two contacts, neither with a GZ or any other bonus points.

Gud thing I am a werewolf, or I'd have really been in the cellar :^). Dam Bill Gates and his crew for spending so much time on the browser and so little time on Win98.

Finally got the blasted thing to run, tho.

Heard a few really good sigs out there...WE6W, as usual, and N7MFB as well. Heard Joe AB7TT working a bunch, but couldn't get to him. Definitely want to do this one again.

CU all, hopefully, in SS next weekend. No more foolin' around with the confuser for awhile.

72,73

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

Date: Sat, 31 Oct 1998 18:32:26 -0600
From: "Terry Bassett" <mutabut@net66.com>
To: <Qrp-1@Lehigh.EDU>
Subject: [23744] Lost files--need help
Message-ID: <000301be052f\$1bd07280\$9c538bce@host.net66.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello All,

Due to fun and games with Windows and a missing CD Rom driver and my attempts to make Windows replace it when Norton couldn't even find it... I've managed to lose some files. Some I had hard copy on, some I didn't.

Specifically, as relates to e-mail I just need the name and address of who to contact for the 11 to 10 project.

Would some kind soul send me that info, perhaps even the fellow spearheading the buy?

I missed the fun of the Zombie shuffle, due to son being in football playoffs. Sounds like those who persevered deserved the pi multiplier (and then some)!

73,

Terry, KA9TXE

Date: Sat, 31 Oct 1998 20:18:55 -0500
From: "Jim Kortge, K8IQY" <jokortge@cwix.com>
To: qrp-1@lehigh.edu
Subject: [23745] 2N2/40 Update #2
Message-ID: <3.0.1.32.19981031201855.006eb628@mail49.mci2000.com>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"

Gang....hit your delete key now if you are not interested in the 2N2/40 project.

For those who are interested in the project, here is an update on the progress of my buildup of rig number

3. I finished the VFO on Thursday. It came up working as it should, but was a bit low in frequency. One turn had to be removed from the main, 44 turn inductor, to allow it to hit the required frequencies.

The even better news is that the frequency stability is very much like the first rig that I build. Power up drift is very low, about 30 Hz total, from a cold start. And the VFO is stable after 3 minutes. I monitored it out to 30 minutes, but it didn't move more than +/- one hertz during the last 27 minutes.

This rig is being built from the documentation that is part of the QRPp article, in the winter issue. It is my final test to assure all of the problems are caught, so you don't end up being frustrated by one of my mistakes.

Thanks for the bandwidth!

72 and kind regards,

Jim, K8IQY

Date: Sat, 31 Oct 1998 20:36:23 -0800
From: k7sz@epix.net
To: qrp-1@lehigh.edu
Subject: [23746] Wanted: T-T Argo 509
Message-ID: <363BE547.7BF6@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I'm in need of an Argonaut 509 with the 206 calibrator and a 208 AF filter.

Prefer trade: have a Drake TR-4C with NB, MS-4 speaker & psu....very good condition, with manual.

Private e-mail, please.

73 Rich K7SZ

Date: Sat, 31 Oct 1998 15:48:26 -0700 (MST)

From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@lehigh.edu
Subject: [23747] Todays Solar Report (RSGA)
Message-ID: <Pine.SOL.3.91.981031154337.14230B@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
> SDF NUMBER 304 ISSUED AT 2200Z ON 31 OCT 1998

> IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z:
> THE GEOMAGNETIC FIELD WAS QUIET.
^^

> IV. PENTICTON 10.7 CM FLUX OBSERVED 31 OCT 119
> V. GEOMAGNETIC A INDICES OBSERVED AFR/AP 30 OCT 004/005

Almost makes you wonder what band THEY were listening to last night!
It sure wasn't 40M.

Date: Sat, 31 Oct 1998 16:50:32 -0500
From: wb2vuo@juno.com (W. K. Hibbert)
To: qrp-1@lehigh.edu
Subject: [23748] 10 Meter Beacon Sub-band
Message-ID: <19981031.165104.10230.1.wb2vuo@juno.com>

Please keep in mind that there are beacons on 10 Meters, and have been for 30+ years. These beacons provide a consistant signal for propagation checks, but don't work if we contest on top of them.

The internationally recognized frequency range is 28.175 - 28.300 MHz, with 28.200 - 28.300 MHz designated for automatic beacons in the USA and possessions.

Be especially careful to avoid operating on 28.200 MHZ as the worldwide beacon network has 18 beacons that timeshare at this spot. Infact, by listening at 28.2 MHz for 3 minutes, you can tell what is open and where it's open to.

Most of the beacons run 3 - 5 watts, and less at several locations. The B/BAMS beacon, NQ2RP/B, runs 125 mW (+21 dBm), and I received quite a few reports this summer from Es propagation.

There is little enough occupancy on 10 Meters. Let's not contest on top of the beacons.

72/73, Keith, WB2VUO, 100% QRP from the Great Bergen Swamp of WNY
Trustee, NQ2RP/B 10 Mtr Milliwatting Beacon (125 mW @ 28.2876 MHz)
My night light runs more power than my Rig!!!

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 31 Oct 1998 19:47:48 -0600
From: "John Burnley" <burnley-ia@worldnet.att.net>
To: <qrp-l@lehigh.edu>
Subject: [23749] Doorprizes arrive!!!!!! Thanks Paul Harden!
Message-ID: <19981101014750.DKJJ10832@burnley-ppp.phibred.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My first attempt to post this apparently didn't fly...
so here we go again! If I goof and this hits the list
twice, my apologies in advance!!!!!!

Boy was I getting nervous! I thought the mail system
had devoured another goodie package (it has happened
before). So tomorrow at the Des Moines hamfest, the
Iowa QRP Club will be giving away an autographed
copy of 'The Electronic Data Book for Homebrewers
and QRPers' by Paul Harden (NA5N). Paul generously
donated the copy for our QRP table doorprize. That's
the great thing about Paul. Not only does he keep us
up-to-date with postings (on solar activity with great explanations)
on QRP-L, put together the MFJ-90's Newsletter, QRPP printing....
I think you are getting the idea (this guy is super busy promoting
QRP) but he is always helping clubs and individuals behind
the scenes. I didn't ask Paul for the gift,
he just did it when he heard we were having our tables. But

that's not all! We also have Zombie badges (famous in their own right) to give away. So drop by the Iowa QRP table tomorrow (November 1, 1998) at the Iowa State Fairgrounds in Des Moines (4-H Building) and register for this great book. If you do any building at all, you'll soon see why it is a great addition to the bench. Or stop by to get a Zombie badge (while supplies last). Our thanks again to Paul!

72/73, John NU0V

Date: Sat, 31 Oct 1998 16:01:20 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [23750] Dan Tayloe's phasing mixer
Message-ID: <01be052a\$c17295b0\$e51f2599@ham.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Looks like this didn't make it into the list the first time I sent it, so here goes again.

There's been a lot of discussion of Dan Tayloe's new phasing mixer scheme, but so far it's all been about how does it work.

Unless someone has already beaten me to it, I'd like to propose a concrete application for it.

There are lots of HW-8, Century 21, and who knows what other dc receivers out there. This could lead to a very neat universal drop-in board to give them all single-signal reception, just like a superhet. They already have a front end and audio section, often with audio filters. The existing vfo could be used also.

I know the discussions say that a vfo at 4 times the operating freq is needed. I'd bet that some bright bit jockey out there could figure out a broadband (untuned) x4 multiplier that would accept the on-freq vfo and multiply it as needed. This could all go on a universal drop-in board for addition to any dc receiver.

Anyway, that's my input to the discussion. I saw the little rig at

Pacificon, and enjoyed discussing it with Dan. A really nice piece of work.

72 to all,
Bob N6WG

Date: Sat, 31 Oct 1998 14:42:11 -0900
From: Jim Larsen AL7FS <larsennc@alaska.net>
To: "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [23751] AL7JK on 10 mtrs right now (2340Z)
Message-ID: <363BA053.331E0A1E@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

AL7JK, John is working JAs QRP on about 14.060.52 at about 2340Z.

FWIW,

73, Jim, AL7FS -- Anchorage, Alaska
(BP51cc)@61.1009636 North 149.8237915 West (approximately)
AK QRP #003, NW QRP #009, ICQ 11022915

Date: Sat, 31 Oct 1998 18:06:22 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: ku7y@dri.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23752] Re: ARRL SS Soon
Message-ID: <363BC21E.2E4F8031@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Monte Stark wrote:

>

> This is THE contest where you can work WAS in one shot!

He's not kidding, folks. This is how I worked WAS QRP: I spent several hours (not a whole lot) on 20, 40, and 80 meters during the SS two years ago. I think I worked all but 3 states, which were easy to pick up later. I used the same

40m dipole at 50' on all bands.

No, it wasn't 2XQRP, but still was neat. Also I used a bug and it really improved my sending. Go for it!

Vic, K2VCO
Fresno CA

Date: Sun, 01 Nov 1998 02:06:40 GMT
From: n3bj@hotmail.com
To: qrp-l@lehigh.edu
Subject: [23753] FS: Rare FT-757SX QRP rig
Message-ID: <199811010206.UAA27705@x13.dejanews.com>

For Sale: Yaesu FT-757SX QRP rig, baby brother to the 757GX, identical features, except for output. Great rig, about a 9 cosmetically, 10 out of 10 electrically, includes factory installed CW filter, keyer. Operator and service manual. Rare find, but must part with it to upgrade main rig.

\$500 shipped

Alan, N3BJ
Bent Mountain, VA

Date: Sat, 31 Oct 1998 21:42:08
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [23754] Tayloe Mixer, it lives!
Message-ID: <3.0.3.16.19981031214208.217fb09e@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy mixer fans,

I discovered why I had such poor sideband rejection, it wasn't that the R values weren't quite right, it was I had it mis-wired! Helps to connect the summing amp to the outputs of the last P shifter, and not the inverting inputs! Why it worked at all is a mystery (well, not too big of one) but would have noticed sooner if it hadn't! Now have about 35 dB of sideband rejection, still not as good as it should be, but usable.

I plugged it into the line input of a boom box I keep handy for a quick

audio PA, connected a wire for an antenna and I hear signals :-) Boy, this thing is quiet. With out an antenna, can only hear the hum from the poor filtering in the boom box. With an antenna, you don't hear much of anything untill you tune across a station. I'm impressed :-) Even more impressive, it's running on an AC bench supply!

It does detect SW broadcast stations just fine. Now to make a nice 800 Hz BPF, RF input filter, a good audio PA and think about what to use for VFO.

This one's a keeper!

BTW, I did up the detector board in Circad, so if you want a copy, drop me a line..

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sat, 31 Oct 1998 21:34:18 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <qrp-l@lehigh.edu>, gqrp-l@blacksheep.org,
towertalk@contesting.com, antennas@qth.net, antennaware@contesting.com
Subject: [23755] Where Do I Hang My Hat?
Message-ID: <Pine.GS0.3.96.981031212754.4820A-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

In answer to some recent questions received on "capacity" hat placement, I have added a note on the subject at my site. The brief answer is--on the end for max electrical efficiency. That is not news, but perhaps a few of the details may be. The note also reviews basic hat properties as well as modeling trends in hat performances--material that appears in various places in other notes, but seemed appropriate for compact summary here.

I hope the note is useful to someone.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)(423) 974-7215
1434 High Mesa Drive	/	\	\	\	----	/\----	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	\	/	/	(FAX)(423) 974-3509
37938-4443 USA	/	\	\	\	\		cebik@utk.edu
URL:	http://web.utk.edu/~cebik/radio.html						

Date: Sun, 1 Nov 1998 02:58:09 -0600
From: k5zty@juno.com
To: NA5N@Rt66.com
Cc: qrp-1@lehigh.edu
Subject: [23756] OFFICIAL ZOMBIE SHUFFLE LOG
Message-ID: <19981101.031231.10278.1.k5zty@juno.com>

Hello Gangue,

Man, I could just kick myself if I could reach the right place. I got it into my mind that the Shuffle was on Saturday night. Thanks to Paul for re posting the rules on Friday. I was reading my mail at 10:00pm local when I saw the FRIDAY night time. I made my first Q at 04:17z and what a riot. CQ B00. Most contest fun I've had in a long time. You could have fun with this one even if you did it wrong.

The noise was bad in Houston too but I have built Doug Demaw's QRN SQUASHER and it really paid for itself Friday night. This one is a real keeper Paul. Real loose contest fun.

72,

Bill, K5ZTY
Houston, TX
Zombie #193

K8IQY	JIM	#22	GZ
N6RY	TERRY	#296	
WE6W	ED	#106	
N2APB	GEORGE	#24	GZ
N2WG	BILL	#255	
W4IM	JOHN	#512	
VE3ILA	KEN	#705	
N3ZPQ	FRANK	#301	
KF6GUH	BECKY	#546	YL
KU7Y	RON	#18	GZ
WA8GHZ	JACK	#281	
KC1FB	JIM	#269	PRIME
WA6GER	JIM	#2	GZ
W6SU	JOHN	#245	
KK5WL	GARY	#534	
N7MFB	BILL	#539	

OFFICIAL ZOMBIE SHUFFLE SCORE SHEET

1) __16____ Number of stations worked (not really used for anything!)

- 2) _4575_____ Sum of Zombie numbers (add up ALL Zombie numbers worked)
ADD CAREFULLY. This could be a big number.

BONUS POINTS:

- 3) __666_____ Add 666 points if you're also a warewolf
- 4) __666_____ Add 666 points if you worked more than 13 stations
- 5) __0_____ Add 666 points if you worked 3 or more prime numbers
- 6) __666_____ Add 666 points for each YL/witchesses you worked
- 7) __0_____ Add 666 points if you worked an Elvis
- 8) __2664_____ Add 666 points for each Grand Zombie worked (Zombie
#001-025)
- 9) __0_____ Add 666 points if at least one QSO was on 80M
- 10) _9237_____ >Add up lines 2 through 9. This is your adjusted gross
score.
>Look up your tax on page 38 and enter on your W-2 line 17
:-)

MULTIPLIERS:

- 11) 29018.959_ Multiply line 10 by "pi" (3.14) if you're a Zombie (an
OM)
- 12) _____ Multiply line 10 by "2-pi" (6.28) if you're a witchess (a YL)
NOTE: You can use any resolution of pi you wish.
- 13) _29018.959_ THIS IS YOUR TOTAL SCORE. (Line 10 times proper
multiplier)
(Took some work to get this to end on line 13!)

NAME: _Bill_____ CALL: _K5ZTY_ ZOMBIE # _193_____

QTH:Houston, TX

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 31 Oct 1998 20:43:57 -0600
From: "Terry Bassett" <mutabut@net66.com>
To: <Qrp-1@Lehigh.EDU>
Subject: [23757] re: lost files--need help
Message-ID: <002e01be0541\$7b021620\$af538bce@host.net66.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Again,

I found a hard copy showing Steve Weber, KD1JV, as being the one with the 11-2-10 project.

Extremely sorry for the waste of people's time, I'm mentally exhausted from being wrestled around by Windows all day (actually since Friday when I got home from work).

I'll get in touch with Steve as soon as I take a whirl through QRZ.com.

73,

Terry, KA9TXE

Date: Sat, 31 Oct 1998 20:46:28 -0600
From: Conard Murray <ws4s@InfoAve.Net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, na5n@Rt66.com
Subject: [23758] Zombie test results from Tennessee
Message-ID: <00ea01be0542\$97c4f380\$6e024ace@pentagrid>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

What a hoot!

These things just get better and better. I still want to know just what that QRM was. I was getting splatter from Radio Yugoslavia on 7115 when I first started operating around 0030Z ... then the Klingon Deep Space Network decided to spread all over our spectrum.

I am always amazed at the fickle propagation Muses ... looking at the logs submitted and listening to some of you I know there were lots of stations I

couldn't hear that I thought would come in fine. 80M was pretty rough copy .. I kept getting 579 reports from stations I had to dig at the noise floor for ... I checked my power to make sure I wasn't QRO after the second time this happened too.

If you weren't in on this most excellent event you really missed some fun.

Score: 20,005.6 points

11 stations worked

3038 summed Zombie numbers

666 for werewolf status

1998 points for three Grand Zombies in the bag (only 2 prime numbers though)

666 for 80M torture session

All summed and multiplied by Pi.

I used my area code (931) rather than applying for a Zombie Number I figured I would be worth more points that way.

Stations worked:

40M: K8IQY, WZ2T, NA5N, N1FN, AK7Y, NQ7X, AB7TT

80M: K8CV, N8DD, AE4GX, WZ2T

I worked all I heard except for WE6W. I heard him calling once and he just faded into the mist. I did hear AL7FS being worked a couple of times but no Alaskan RF on my end. Nothing on 6M either.

Rig: Kenwood TS570D and Wilderness Sierra on 80 and 40

Icom 551D on 6

Antenna: 150 foot end-fed wire worked against ground for H.F.

homebrew 4 element yagi on 6

Date: Sat, 31 Oct 1998 19:21:08 -0800

From: Mighty Mik <mitymik@hooked.net>

To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>

Subject: [23759] no digest today? (Sat)

Message-ID: <363BD3A4.C4A0C7D9@hooked.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

what did i miss, besides Zombie Shuffle gloating? Where is digest #1262?

Date: Sat, 31 Oct 1998 15:33:14 -0600
From: Ed Manuel <n5em@flash.net>
To: qrp-1@lehigh.edu
Subject: [23760] Ideas for using 300 ohm Twinlead?
Message-ID: <3.0.5.32.19981031153314.008b1dd0@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

I'm working on an antenna and need some ideas on terminating the feedline. The antenna is designed to be very lightweight, readily disassembled and easily packed and carried. It can be supported on a SLV fishing pole. I want to use 300 ohm twinlead because it's cheap and low-loss. Unfortunately, as those who have experimented with it in the past, it is also somewhat fragile when you expose those conductors for termination. I need some method of attaching it that is reliable, but lightweight and quick. I remember those plexiglass twinlead connectors you used to see in the R/S stores. Couldn't find them today - they might be getting hard to find.

Any experience using those connectors? Any other ideas that fill the above requirements?

I could use RG-174 but it's starting to get kinda lossy at 10 meters (where this project is) and it's kinda fragile too, particularly where it attaches to the connector. RG-58 is getting heavy, if you can imagine 20 ft. hanging off your SLV pole.

The project is a 2 element beam (Moxon Rectangle for those in the know). The 300 ohm twinlead will be cut into lengths that are multiples of half wavelength so the impedance isn't important and the Moxon Rectangle is balanced anyway. I'll make a transition to 50 ohm feed at the bottom.

Please respond direct and I'll summarize the ideas that I receive to keep the chatter down.

Thanks.

Ed Manuel, N5EM
Houston, Texas
n5em@amsat.org
n5em@flash.net

Date: Sat, 31 Oct 1998 19:40:31 -0800
From: "Radman" <radman@best.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <mutabut@net66.com>
Cc: "Conrad Weiss" <radman@best.com>, "Steven Weber" <kd1jv@moose.ncia.net>
Subject: [23761] Re: Lost files--need help
Message-ID: <199811010336.TAA17170@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Terry,

Steve "melt solder" Weber and my self (Conrad Weiss) are in the process of beta testing the 11-2-10 Weber kit on the RS & Maxon units. Testing is proceeding as I write this... We'll update you and the list within a couple of days. We're getting there :-)

Steve: kd1jv@moose.ncia.net
Conrad: radman@best.com

Wish us luck,

72 - Conrad - NN6CW

Hello All,

Specifically, as relates to e-mail I just need the name and address of who to contact for the 11 to 10 project.

Would some kind soul send me that info, perhaps even the fellow spearheading the buy?

73,

Terry, KA9TXE

Date: Sat, 31 Oct 1998 22:56:55 -0500

From: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-1@LeHigh.edu>
Subject: [23762] RE: Milliwatt computer clock rig
Message-ID: <008401be054b\$ac4bfde0\$04000a0a@nwarfiel.usf.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

28.322 is the frequency of a computer clock IC that I found recently... It does work quite well as a CW Milliwatt rig when fed from 5 volts and connected to a dummy load (my 10 meter antenna is down for repairs, yes Mr Murphy, when the band IS opening ...)

My question to those involved with digital devices... I am curious about why that particular frequency 28.322...

I understand other computer clock chip frequencies as quite logical, like the timing for CPU's... like 16.000, 25.000, 50.000 etc... but this 28.322 defies all my analysis...

BTW, have you tried a 50.000 IC computer clock IC as a weak signal generator to test your 6 meter antennas ?

It works great ! Just add a 50 mHz tuned circuit , and run it from 3 or 4 AA batteries...

Another question... are some of those clock IC's CMOS instead of TTL ?

I use them a lot here, as a stable , very easy to set up injection frequency oscillators for converters...

Example... a 40.000 mHz IC clock module provides excellent injection for a 4 diode balanced mixer that I use for receiving 6 meters on a radio at the 10 mHz spot of the dial...

Arnie Coro
C02KK

Please e-mail direct if you think that your answer will use too much bandwidth... IF you think that your answer to my posting will be of interest to other prospective MILLIWATTERS, just go ahead and make it seen by all !

Date: Sat, 31 Oct 1998 23:22:06 -0500
From: "cdd" <cdd@bellatlantic.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [23763] "ZS" in there
Message-ID: <001b01be054f\$306da580\$2d7bc997@curt>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Just wrked Me1 "ZS5MF" in Durban on my OHR400
in case someone wants to wrk him. . . 72 Curt/K3ivb

0419Z 14.058

Date: Sat, 31 Oct 1998 20:25:35 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Mark R Milburn <kq0i@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [23764] Re: Rules for events
Message-ID: <Pine.SOL.3.96.981031202407.10068A-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 31 Oct 1998, Mark R Milburn wrote:

> I haven't seen any rules or summaries on the operations for:
>
> LI/NJ QRP Doghouse Nov 11-12
> Holiday Spirits Homebrew Sprint Dec 6
> Colorado Snow Shoe Run Dec 12

Hi Mark and all,

The Holiday Spirits Homebrew Sprint announcement is
in the October 98 QRP ARCI Quarterly, page 62.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sat, 31 Oct 1998 20:27:49 -0800 (PST)
From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: "Wilford D. Lindsey" <70511.3041@compuserve.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [23765] Re: ANNOUNCING--N/T+ FOX Hunt
Message-ID: <Pine.LNX.3.96.981031202701.26740A-100000@amethyst.axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 31 Oct 1998, Wilford D. Lindsey wrote:

> B+TW, we still have space for additional N/T+ ops. Perhaps you could
> encourage someone to join in. If so, they can simply e-mail me and I
> will contact them.

Count me in. Where do I sign, and where can I see the official rules?
Thanks.

```
=====
      KC5TJA/6      |                               -| TEAM DOLPHIN |-
      DM13         |                               Samuel A. Falvo II
      QRP-L #1447   |                               http://www.dolphin.openprojects.net
      Oceanside, CA |.....
```

Date: Sat, 31 Oct 1998 20:32:10 -0800 (PST)
From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: Bob Tellefsen <n6wg@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23766] Re: Dan Tayloe's phasing mixer
Message-ID: <Pine.LNX.3.96.981031202855.26740B-100000@amethyst.axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 31 Oct 1998, Bob Tellefsen wrote:

> I know the discussions say that a vfo at 4 times the operating freq is
> needed. I'd bet that some bright bit jockey out there could figure out a
> broadband (untuned) x4 multiplier that would accept the on-freq vfo and
> multiply it as needed. This could all go on a universal drop-in board for
> addition to any dc receiver.

Oh, heck. You don't need to be a genius to figure this one out. All you
need is a phase locked loop circuit, locked to 4x reference frequency.
Simply make the desired frequency the reference, and out comes the 4x
frequency. The problem, however, is you need a VCO capable of generating
the frequency high enough (4x30MHz is 120MHz!!), and have a suitably fast
divide-by-N circuit to feedback the PLL with. This almost certainly
dictates ECL for most homebrewing applications.

Please note: the output of most PLLs today are digital -- this means you can drive a /4 ring counter to provide the "four-phase clock" for the Tayloe product detector.

```
=====
      KC5TJA/6      |                               -| TEAM DOLPHIN |-
          DM13      |                               Samuel A. Falvo II
      QRP-L #1447   |                               http://www.dolphin.openprojects.net
Oceanside, CA      |.....
```

Date: Sat, 31 Oct 1998 21:08:11 PST
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: n2tpa@juno.com
Cc: qrp-l@lehigh.edu
Subject: [23767] Re: Scope Probes
Message-ID: <19981101050812.2921.qmail@hotmail.com>
Content-Type: text/plain

If that is the case, then, does the "bandwidth" of the probe really have any meaning? The effect of the capacitance would depend upon the circuit being measured and whether it has a low enough impedance to source the current required to "drive" the probe without attenuation.
Isn't this correct?

Brad

>Brad (and the gang),
>
> I didn't see any replies to this, so I figured I'd give it a try:
>
>Brad Hernlem writes:
>
>>Concerning passive scope probes, what factors limit their bandwidth?
>> I can understand that the coax's capacitance will affect the apparent
>>capacitance at the tip but this seems to be solely an impedance issue.
>>
>>What limits the bandwidth?
>>Brad
>
> "Solely an impedance issue" means that at or above some frequency,
>ALOT of your signal will be shunted capacitively to ground rather than
>being seen by the scope. This shunting increases with increasing
>frequency, and reduces the accuracy of your measurements accordingly.
>
>73/72,

>
>Bill
>W2EB
>
>
>-----
>Get secure free e-mail that you don't need Web access to use
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>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sun, 1 Nov 1998 00:36:59 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: //QRP-L Discussion Group <QRP-L@Lehigh.edu>, "+Doc W.D. Lindsey/K0EVZ"
<70511.3041@compuserve.com>
Subject: [23768] CALLING all N/T+ Ops
Message-ID: <199811010039_MC2-5EB5-87FC@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Gang:

We are just about ready for the first runs by our N/T+ FOXes. I hope to get the first ones out of their dens in the next couple of days. Watch for *their* postings, as they take care of their onw.

Please plan to try to work as many of them as possible. Hounds can earn a two-point BONUS for each N/T+ FOX worked during the season. See rules for further details.

But the big thing is for all of us to surround these N/T+ FOXes with as many QSOes as possible. Gotta tell ya, two hours is a long stint for a FOX--even if there is a huge humber of hunters to pick from.

But sitting there calling endless CQ FOX with no response is really discouraging. So let's help these ops and our hobby in general by taking time to hunt these ops :-). Let's do it, everyone. See *you* in the hunts.

72/73,

--Doc Lindsey/K0EVZ
DSBF
P.O. Box 7187
Bismarck, ND 58507
E-Mail 70511.3041@compuserve.com

Date: Sat, 31 Oct 1998 23:48:43 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: qrp-l@Lehigh.EDU
Subject: [23769] Bird 43 Element Wanted
Message-ID: <363BF63B.4F892F3F@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Looking for a 50H element for a Bird 43 wattmeter. Please contact me directly if you have one to sell or trade. This is the 50 watt, 2 - 30 mHz slug.

Thanks.

--

72/73, George
Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE #522 ARS 10-X 33.2 N 96.6 W EM13RE

Date: Sun, 1 Nov 1998 00:15:24 -0600
From: William-McShan@ouhsc.edu (Mike McShan)
To: qrp-l@Lehigh.EDU
Subject: [23770] OK Zombie Blues
Message-ID: <v01540b00b261a285095b@[207.193.34.136]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well, things were just as wierd here in the OK City area last night as everywhere else, just more so. On top of the general rotten band conditions, we had a very active weather system that added plenty of static crashes. Think of 80M in the summer.

I was in the black hole... I heard plenty of stations that could hear me

(well, I at least understand why KU7Y didn't answer me at first). In three hours I managed to make three exchanges: WE6W (he worked everybody, I think), KU7Y, and WA6GER. If you can't have quantity, go for quality. :-)
Two of the three were Grand Zombies. Final score was 6669.36. Almost got KF6GUH but he faded out during the exchange. Also heard: KD7S, W5JH, N1FN, KE6ZX, K5ND, N8MFB, VE3ELA, and KF2W.

Was it fun? Yep, I'd do it again for sure. Maybe it conditions had been perfect, it wouldn't be Halloween. After all, this is when knife-wielding, masked maniacs chase Jamie Lee Curtis around.

72 and Boo,
Mike N5JKY

Date: Sun, 1 Nov 1998 01:41:20 EST
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [23771] Need info on magnets
Message-ID: <1b53bb0b.363c0290@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,
I'm working on a project and I need magnets.
Rod type, appx 1/2 inch in DIA. and 1-2 inches long.
I searched the web and came up with nothing.
Anyone know of a source where I may be able to buy them?
Many thanks in advance
Bob
WA2HOQ

Date: Sun, 1 Nov 1998 01:33:25 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu, cqclist@mtechnologies.com
Subject: [23772] Second Colorado Snowshoe Event 12/12/98
Message-ID: <199811010835.BAA03864@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

THE SECOND FIRST ANNUAL GREAT COLORADO
SNOWSHOE RUN

Sponsored by the Colorado QRP Club

When: 0300-0500Z Sunday, December 13, 1998

Pacific: Saturday, Dec 12 7-9 pm
Mountain: Saturday, Dec 12 8-10 pm
Central: Saturday, Dec 12 9-11 pm
Eastern: Saturday, Dec 12 10pm - 12 midnight

Band: 40 Meters only

Mode: CW

Power: 5 watts maximum for all entrants

(QRO stations are encouraged to join the run, but we can't accept your logs as a contest entry. QRP stations can work QRO stations.)

Classes: Based on antenna type!

W - Single element wire (includes dipole, random wires, Zepp, doublet, inverted "V", slopers, single element loops, inverted "L", etc.)

V - Verticals (includes single element, ground plane, trapped vertical, anything with vertical polarization and omnidirectional pattern).

B - Multi-element arrays/beams (includes beams, multi-element loops, phased verticals, V-beams, rhombics, etc.)

Operations may be conducted with different antennas provided all antennas used are in the same class.

Exchange: RST + State/Province/Country + Antenna Class
+ CQC # or
Power

Example: 549 C0 W NR154 or 559 VA V 5W

Multiple Contacts: The same station may be worked up to three times during the contest, provided there is a minimum of 30 minutes between QSOs with the same station.

Scoring: 3 points per QSO, the first time each station is worked.

2 points for the second time the same station is worked.

1 point for the third time the same station is worked.

Multipliers: SPCs and the number of CQC members worked.

Second and third contacts with the same station, if made, do not count as multipliers.

Total Score: QSO Points X SPCs X Members = Total Score

AWARDS: Certificates will be awarded to the highest scoring station in each antenna class, and the highest scoring station in each SPC.

LOGS: Submit logs showing time UTC, callsign, exchange received and QSO points for each station worked.

Example: 0305 W0CQC C0 S 5W 3 1

0312 K5AB TX V 154W 3

0336 W0CQC C0 S 5W 2 0

Submissions must include a summary sheet giving your name, call sign, antenna class, mailing address, a calculation of your total score.

Also include an alphabetical listing of claimed multipliers and a description of equipment and power used. Comments are also welcome.

Logs must be postmarked or e-mailed no later than 30 days post

contest.

Mail to: Colorado QRP Club, Inc.
P.O. Box 371883
Denver, CO 80237-1883

E-mail (ASCII text files only) to: cqccx@cqc.org

73
Marshall Emm
N1FN/VK5FN
n1fn@MorseX.com
Morse Express
"Everything for the Morse Enthusiast"
<http://www.MorseX.com>
(303)752-3382
--

Date: Sun, 01 Nov 98 02:57:28 -0500
From: Chuck Adams <adams@ticnet.com>
To: "Hendricks, Doug" <ki6ds@dpol.k12.ca.us>
Cc: qrp <qrp-1@lehigh.edu>
Subject: [23773] Re: Schematics for Elmer 200 on K5F0 Web page?
Message-ID: <199811010855.DAA25178@nss4.cc.Lehigh.EDU>

Doug et.al.,

Guess you weren't reading all the notes. :-)

I'll have the information on the web page in a week. The reason being that it takes me time to work on two different systems and the format on the web will not only include the original posting but the answers and additional information that would take too much bandwidth.

The schematics are in the handbook on the referenced pages. Just be sure to remove the two resistors noted.

FYI

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Sun, 1 Nov 1998 06:35:56 -0500
From: n3fel@juno.com (Howard D Rubin)
To: RangerSF5@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [23774] Re: Need info on magnets
Message-ID: <19981101.063623.8686.0.n3fel@juno.com>

Bob,
Hi there, Bob. I haven't heard you on the PWA machine lately; hope all is well with you.

As a source of magnets you might look into PA speakers (cylinders), microwave magnetrons (donuts), magnetic signs (sheets), and refrigerator decorations (chips). Radio Shack sometimes offers magnets in small chip size about 3/4 Dia.

Howard D. Rubin, N3FEL
Editor, X-Mitter
Penn Wireless Association
Bucks County, Pennsylvania
USA

On Sun, 1 Nov 1998 01:41:20 EST RangerSF5@aol.com writes:

>Hi Gang,
>I'm working on a project and I need magnets.
>Rod type, appx 1/2 inch in DIA. and 1-2 inches long.
>I searched the web and came up with nothing.
>Anyone know of a source where I may be able to buy them?
>Many thanks in advance
>Bob
>WA2HOQ
>

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 01 Nov 1998 08:03:36 -0500

From: mikemo@ibm.net
To: n6wg@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23775] Re: Dan Tayloe's phasing mixer
Message-ID: <363C5C28.28F@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bob Tellefsen wrote:

> There are lots of HW-8, Century 21, and who knows what other dc receivers
> out there. This could lead to a very neat universal drop-in board to give
> them all single-signal reception, just like a superhet.

Oh man, would that be cool! I know there a ton of HW-7 and HW-8 owners who would not mind some "cut and splice" to breathe new life into these old classics. And for all those who have broken vfo caps, how about a synthesized or varactor tuned vfo?

The highest freq of the HW-8 vfo is 21.250, times 4 is 85MHz. Too high for the PLL solution?

Where do I sign?????

72 de ku4qo, Mike Maiorana, Palm Harbor, FL

Date: Sun, 1 Nov 1998 08:37:24 -0500
From: DNT1@chrysler.com
To: tpettibo@NMSU.Edu
Cc: qrp-1@Lehigh.EDU
Subject: [23776] Re: What's on 40m?
Message-ID: <052566AF.004AC693.00@Ingodd02.notes.chrysler.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

You wrote:

> Wasn't going to go for the Zombie thing until 0300 or 0400z here but
> turned
> on the rig to warm it up and check the band at 0139z. 40m has a lot of
> wide-band ocean sounding QRN. Am I imagining this? Is it localized or
> is
> it an invasion from Mars? Just wondering.
>
> Look for me later.

>
> Tim K50I
> Zombie # 19

I don't know about you, but I had constant interference from an AM broadcast station that was centered on 6975 kHz & splattering all the way up to 7069 kHz. The signal so swamped the receiver that I could hear absolutely nothing except noise, major static and occasional pops. A very brief opening appeared during which I started to work K1FN, then it started up again. I think we completed the QSO, although I wasn't sure as I shut down the rig in frustration. I guess it's time to pop for the narrow filters if I'm going to be working 40, just too much other stuff going on there to be without!

72,

Don T. AI4CW QRP-L#1670 Zombie # 528

Date: Sun, 1 Nov 1998 08:44:18 EST
From: ARDUJENSKI@aol.com
To: n5em@flash.net, qrp-l@Lehigh.EDU
Subject: [23777] Re: Ideas for using 300 ohm Twinlead?
Message-ID: <94b8a23b.363c65b2@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

ED,
Thought I would share my experiences with the use of 300 ohm tv twin lead.

BEEN THERE, SEEN IT, and DOING IT. I use the 300 ohm alot for experimentig and have used it even on my main DOUBLE ZEPP until I mad some open feed line.

PROCEDURE: What I found works for me is cutting about 3-4inch lenthhs of #18 speaker wire and solder them to the ends of the tv twinlead and tpae it neatly and inexpensive male RCA PHONO plugs inserted on the ends of the wires.

DISCUSSION: The speaker wire is two colors, silver and copper, allowing you to keep track of which wire is plugging where if you need to know. These wires are heavy yet flexible. I use males on ALL CONNECTIONS and interconnect with double females. For phasing SLV verticals I have made some 3 junction female phone or you can just buy some multi connections.

NOTE ON WIRE CONNECTION: The best way I found to wire the tv to the speaker wire is to carefully strip back the outer covering exposing each wire leaving the center material in tact. Twist these to the speaker wires and then lay them back along side the center insulating material and tape tightly. It is fairly strong and durable.

DOESN'T LIKE RAIN: A lot of moisture changes the characteristics of the wire and alters your tuning values.

NOTE ON SLV: I have the tv coil at the base of the pole. Soldered at the top end of the wire is a 17ft #18 speaker wire and a phono plug (male) at the base using the method noted above. The speaker wire coils neatly on the pole above the tv wire for storage. The tip of the speaker wire is held in place from unwraveling with a "rubber band" I made from an old bicycle inner tube.

Hope this is of some help...Alan KB7MBI

Date: Sun, 01 Nov 1998 07:34:58 -0800
From: Steve/n0tu <n0tu@webaccess.net>
To: qrp-1@Lehigh.EDU
Subject: [23778] Help w/KC-2 (no counter?)
Message-ID: <363C7FA2.57E0@webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,

Just finished building and installing a Norcal version of the KC-2. I've got it installed into my Norcal Sierra. Keyer/memory, S-meter, power meter, and offset function all seem to work. But the display doesn't change at all with my VFO. It seems locked up on zero or whatever number I set it to? Anyone have a voltage chart or suggestions. This is a rev.A and the manual was an early field version w/o many trouble-shooting suggestions. Thanks in advance for any Help!!

Haven't had much time to operate or chase Fox ...been too busy on buildin' the house but I do get on the mobile on the way to and from work. Snagged a couple of Zombies thru all that 'erie' noise Friday nite. What was that stuff anyway?

Steve/n0tu/QRP/m

Date: Sun, 1 Nov 1998 09:17:21 -0500
From: wb8ygg@juno.com
To: n5em@flash.net
Cc: qrp-1@Lehigh.EDU
Subject: [23779] Re: Ideas for using 300 ohm Twinlead?
Message-ID: <19981101.091916.26478.0.wb8ygg@juno.com>

We used to have these things in the closet when I was a kid.

My dad used them to switch between two different locations for the tv in the house.

these would probably be a good way to connect the twinlead.

Good idea ED!

73

"One of the TICK Guys"
Brad WB8YGG
<http://www.frontiernet.net/~embres>
embres@frontiernet.net

>quick. I remember those plexiglass twinlead connectors you used to
>see in
>the R/S stores. Couldn't find them today - they might be getting hard

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Get completely free e-mail from Juno at <http://www.juno.com>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 1 Nov 1998 09:48:07 -0500
From: w4bws@juno.com (Donald E Sanders)
To: mikemo@ibm.net
Cc: qrp-1@Lehigh.EDU
Subject: [23780] Re: Dan Tayloe's phasing mixer
Message-ID: <19981101.100655.3958.1.W4BWS@juno.com>

I'm interested in upgrading my HW-8. Let us know when you have the schematics and info for the Hw-8's, et all. Thanks.

Donald E. Sanders W4BWS

694 E. Eau Gallie Blvd. Satellite Beach, FL 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

On Sun, 01 Nov 1998 08:03:36 -0500 mikemo@ibm.net writes:

>Bob Tellefsen wrote:
>> There are lots of HW-8, Century 21, and who knows what other dc
>receivers out there. This could lead to a very neat universal drop-in
>board to give them all single-signal reception, just like a superhet.
>
>Oh man, would that be cool! I know there a ton of HW-7 and HW-8
>owners who would not mind some "cut and splice" to breathe new
>life into these old classics. And for all those who have broken vfo
>caps, how about a synthisized or varactor tuned vfo?
>
>The highest freq of the HW-8 vfo is 21.250, times 4 is 85MHz. Too high
>for the PLL solution?
>
>Where do I sign?????
>72 de ku4qo, Mike Maiorana, Palm Harbor, FL
>

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 1 Nov 1998 10:40:48 -0500
From: "George Heron" <gheron@idt.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Cc: <kq0i@juno.com>
Subject: [23781] re: Rules for events [Doghouse Sprint: Nov 21]
Message-ID: <006101be05ae\$06137760\$873984a9@herong.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Rules for the LI-QRP/NJ-QRP jointly sponsored Doghouse Operation Sprint on
Nov 21 are located at: http://www.njqrp.org/doghouse/doghouse_announce.html

72/73,
--George Heron, N2APB
n2apb@amsat.org in Sparta, NJ

<http://www.njqrp.org> <-- Home of the NJ-QRP Club

=====

> I haven't seen any rules or summaries on the operations for:

>

> LI/NJ QRP Doghouse

[snip]

Date: Sun, 1 Nov 1998 09:45:10 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [23782] W9GR DSP filter
Message-ID: <Pine.LNX.3.95.981101093958.4230D-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm trying out a W9GR DSP filter with the thought of purchasing it to use with my Kenwood TS-430S, which has no filtering....but for the life of me, I have to admit...duuuuuuh....that this here Zombie dummy can't get the thing to work....I've tried it but I just have the feeling I'm not operating it correctly.....I guess I need to reread the manual a number of times and maybe something will get through my brain cells....HI
HI...usually when I try some piece of gear, I read about it and the next thing that happens is "Oh, that's how it works" but it's not happening this time...HAR!....maybe I'm still in Zombie mode!...any info would be appreciated very much....

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683
"QRP! How sweet it is!"

Date: Sun, 1 Nov 1998 10:44:05 EST
From: RABRUNER@aol.com
To: alihernlem@hotmail.com, qrp-l@Lehigh.EDU
Subject: [23783] Re: Scope Probes
Message-ID: <546e23e.363c81c5@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 11/1/98 12:01:42 AM Central Standard Time,
alihernlem@hotmail.com writes:

> If that is the case, then, does the "bandwidth" of the probe really have
> any meaning? The effect of the capacitance would depend upon the circuit
> being measured and whether it has a low enough impedance to source the
> current required to "drive" the probe without attenuation.

"Bandwidth" has meaning if you understand the criteria by which it is specified. a 100mHz probe doesn't work perfectly up to 100.00 mHz, and then instantly stop working. It works pretty well up to that bandwidth, depending on the parameters of the external d.u.t., and then has increasingly less reliable performance beyond the specified "bandwidth." That is why the complete specification for the probe must be understood; all those miscellaneous details they list after bandwidth like input c, effective impedance, etc. must be known and taken into account. Your probe will work much better on low impedance circuits than high and so on. If you are doing audio work, you can probably use a piece of RG-58 with an alligator clip. If you are doing 100 mHz pulse work, even a 100:1 passive probe may be useless. The bandwidth of the probe is more or less by definition. Good probes will continue to deliver usable performance, though with diminished accuracy, but suitable for some purposes, well beyond the specified bandwidth. Some brands of probes are better than others. Some of really cheap probes are often a little generous with their "definition" of effective bandwidth. That's why it is better to stick with stuff from the big guys you know and trust. Take that \$30 to a hamfest and by a used name brand probe designed to sell for \$175 rather than spend it on some off brand probe that may nor may not be a good deal.

All of the above comments apply to the scope as well. A 100mhz scope does not work perfectly right up to 100mHz and then go to black. For some purposes, such as looking at fast rise square pulses, it may not work well at half its rated bandwidth -- you will never see a 100mHz squarewave on a 100 mHz scope. For other purposes, like making relative measurements of sine wave signal levels, a scope may be usable at twice the rated bandwidth. It's necessary to understand the specs and how they are applied. If you want cutting edge performance out of a scope you need to have a very wide band scope with an active probe, and you still have to make sure to understand the interaction of the scope, the probe, and the d.u.t. Tektronix has a library full of application notes these topics and if you call your local Tek rep, he will probably be glad to fill your mailbox with them for free.

73
Bob Bruner
WB4TAJ/9
Chicago

Date: Sun, 1 Nov 1998 16:44:59 +0100
From: "Johan Bodin" <sm6lkm.jbeab@swipnet.se>
To: "qrp-l list" <qrp-l@lehigh.edu>
Subject: [23784] RE: Dan Tayloe's phasing mixer
Message-ID: <199811011545.QAA16124@mb05.swip.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi,

KC5TJA wrote:

> Oh, heck. You don't need to be a genius to figure this one out. All =
> you
> need is a phase locked loop circuit, locked to 4x reference frequency.
> Simply make the desired frequency the reference, and out comes the 4x
> frequency. The problem, however, is you need a VCO capable of =
> generating
> the frequency high enough (4x30MHz is 120MHz!!), and have a suitably =
> fast
> divide-by-N circuit to feedback the PLL with. This almost certainly
> dictates ECL for most homebrewing applications.
>=20
> Please note: the output of most PLLs today are digital -- this means =
> you
> can drive a /4 ring counter to provide the "four-phase clock" for the
> Tayloe product detector.

4 x L0:

There is a chip named ICS501 which is a "frequency gearbox". It works =
with
input frequencies down to 2 MHz. Many multiplication factors are =
available
(pin selectable) and one of them is 4. Max output freq. is 160 MHz.

There is a PLL inside this chip. I don't know if the phase noise is good =
enough
for radio work, but the chip is interesting and I think it's definately =
worth a try.

For more information visit:

<http://www.microclock.com>

and look for ICS501.

72 de Johan Bodin, SM6LKM

Date: Sun, 1 Nov 1998 11:09:19 EST
From: Bigbob97@aol.com
To: QRP-L@Lehigh.edu
Subject: [23785] 6, 10, 15 Quad?
Message-ID: <4387d643.363c87af@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I wonder if anyone has any info or web sites on quads. I am contemplating putting up a two element quad for 6, 10 and 15. It has about the same gain as a three element yagi but I suppose it would be much shorter which is important to me as I live in a skinny house. Do you think I could feed it with one line or feed each separately? I have been reading the Handbook and Antenna Book but was looking for other sources, especially results of antennas built by others. Thanks for your comments.

73,

Bob WB2DHK in Jersey City, NJ

Date: Sun, 1 Nov 1998 10:17:00 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [23786] Re: W9GR DSP filter
Message-ID: <Pine.LNX.3.95.981101101434.11856D-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...further...it's the DSP-III and has a 16 position filter switch on the front panel...on/off...LED level display...in/out switch...AF GAIN control...also a BIO (options) switch on the back....

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683
"QRP! How sweet it is!"

Date: Sun, 01 Nov 1998 11:19:52 -0500
From: John Levreault <jlevro@mediaone.net>
To: sm6lkm.jbeab@swipnet.se
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23787] Re: Dan Tayloe's phasing mixer
Message-ID: <363C8A28.65DA6756@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
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Johan Bodin wrote:

> There is a chip named ICS501 which is a "frequency gearbox". It works with
> input frequencies down to 2 MHz. Many multiplication factors are available
> (pin selectable) and one of them is 4. Max output freq. is 160 MHz.
>
> There is a PLL inside this chip. I don't know if the phase noise is good enough
> for radio work, but the chip is interesting and I think it's definately worth a
try.

>From the Microclock FAQ:

How does it compare to an oscillator?

For most applications, LOCO and a crystal can replace an oscillator, saving space
and
cost. The output jitter is very low, comparable to some high-quality
oscillators, and LOCO provides more flexibility and better availability.

de nb1i
John

Date: Sun, 01 Nov 1998 11:26:09 -0500
From: John Levreault <jlevro@mediaone.net>
To: sm6lkm.jbeab@swipnet.se
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23788] Re: Dan Tayloe's phasing mixer
Message-ID: <363C8BA1.2C679BB2@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Johan Bodin wrote:

> There is a chip named ICS501 which is a "frequency gearbox". It works with
> input frequencies down to 2 MHz. Many multiplication factors are available
> (pin selectable) and one of them is 4. Max output freq. is 160 MHz.

You might also want to look at the ICS502. It includes a x1 output, which could be used as a buffer for a transmitter chain. The '501 just has the multiplied output available, although there's no reason you couldn't split the VFO going into the '501.

de nb1i
John

Date: Sun, 1 Nov 1998 08:49:25 -0800 (PST)
From: Richard Fisher <nu6sn@yahoo.com>
To: qrp-l@lehigh.edu
Cc: nu6SN@aol.com
Subject: [23789] Final announcement: ARS' November Spartan Sprint
Message-ID: <19981101164925.17364.rocketmail@send105.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The November Spartan Sprint will be held on November 2 (which is our standard

date--the first monday of the month). We will be operating on three bands--80, 40, and

20. Don't worry if your station is a bit obese. We commend the winners in two

categories--points (the Tubby Division), and points per pound (the Skinny Division).

If you are a newcomer to the Sprints, take a look at the introductory material at the end of this post.

1. Start at 9:00 PM Eastern, 8:00 Central, 7:00 Mountain and 6:00 Pacific time. Finish at 11:00 PM Eastern, 10:00 Central, 9:00 Mountain and 8:00 Pacific time.

2. The frequencies will be 3560 kHz +/-, 7040 kHz+- , and 14060 kHz+-. (You may

operate one, two or three bands--your choice.)

3. Exchange RST, SPC (state, province or country) and power output.

4. If you choose to call CQ, use the format "CQ SP," or "CQ SP TEST."

5. You can take credit for working the same station on a second band.

After the contest, we invite you to use our autolog, which is part of the ARS Sojourner.

Just go to www.natworld.com/ars and follow the link for "Direct access to autologs".

Or you can speed things up by going directly to the Spartan Sprint autolog page at www.natworld.com/ars/ss_log.html.

If you don't have access to the web, THERE IS A DIFFERENT PROCEDURE FOR NOVEMBER.

Russ Carpenter will be out of town. So send Richard Fisher, nu6SN, an e-mail with your

total QSOs and the total weight of your station (i.e., the combined weight of all

transmitters, receivers, keys, keyers and batteries used during the Sprint). You may

also include your comments from the soapbox. Richard' email address is

nu6SN@aol.com.

We publish results for each Spartan Sprint on the Thursday following the Sprint. This

may be the world's quickest contest reporting! Please send us your log as soon as

possible, but in no event later than Wednesday afternoon.

The Spartan Sprint is based on a simple but stimulating concept. We are encouraging

all of you to cobble together the kind of station you'd use in a portable

environment--lightweight transceiver, keyer, key, and battery. Then put that turkey on

the air, and participate in a two hour sprint.

All operators are invited to play, whether or not they are

members of Adventure Radio

Society. Even if you don't have lightweight equipment, your participation will be rewarding, both for you and the other participants. We'll report the score in two different formats--absolute scores, and points per pound of station weight. So you can get your kicks from running up a magnificent score, or achieving an remarkable ratio of points per pound.

If you're thinking about becoming a member of Adventure Radio Society, just send

Richard Fisher (our membership chairman) an e-mail expressing your interest.

Richard's e-mail address is nu6SN@aol.com. Membership is free, and the organization

has a great group of men and women who combine their love of ham radio with their affection for the outdoors. You don't need to be a macho person; ARS welcomes people of all ages and levels of ability.

Russ Carpenter, AA7QU, Contest Manager

russ@natworld.com

DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Sun, 1 Nov 1998 12:31:48 EST
From: borealis@juno.com (Philip G. Collier)
To: qrp-1@lehigh.edu
Subject: [23790] 4X multiplier chips, latest QRN
Message-ID: <19981101.123321.9158.0.borealis@juno.com>

Bob N6WG writes:

>I know the discussions say that a vfo at 4 times the operating freq
>is needed. I'd bet that some bright bit jockey out there could figure
>out a broadband (untuned) x4 multiplier that would accept the on-

>freq vfo and multiply it as needed.

There's a chip in the Digi-Key catalog that will do this: EPS-1010

Epson America, Inc. EPS-1000 frequency multiplier ICs use an on board PLL that's programmable to provide outputs at 2, 2.25, 3, 3.33, 3.75. and 4.5 times whatever freq is fed into the clock pin. Two of them would do the job. Outputs ok up to 11 MHz.

There may be other chips out there that can do it too. Maybe these can save some board space over conventional multiplier / filter circuits. Anyone know how spectrally clean multiplier chips are? It would be a bummer to use a great product detector but still have degraded performance due to phase noise...

Forty meters sounded pretty good here last night. I heard quite a bit of long skip in there, but not much noise this time. After a quick check there, it was time to hunt lower beacons, and THAT band had a lot of QRN from thunderstorms. Funny sounding static crashes that seemed to sweep through the bandpass of my loop antenna (about 3 kHz). Lots of really coarse gurgling noise near dawn too.

18,
Phil KG2DH

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 01 Nov 1998 12:41:33 -0500
From: "Hugo W. Catta" <hugo@banet.net>
To: n0tu@webaccess.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23791] Re: Help w/KC-2 (no counter?)
Message-ID: <363C9D4C.BF1C8A81@banet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi, Steve:

Have you tried another CV cap?

If measured with an RF probe or scope, do you get RF voltage from the VFO to J3 pin 1?

72,

Hugo

CX9AAK/W2 /QRP /M (well... not as often as I would like...)

Steve/n0tu wrote:

> Hi Gang,

>

> Just finished building and installing a Norcal version of the KC-2. I've
> got it installed into my Norcal Sierra. Keyer/memory, S-meter, power
> meter, and offset function all seem to work. But the display doesn't
> change at all with my VFO. It seems locked up on zero or whatever number
> I set it to? Anyone have a voltage chart or suggestions. This is a rev.A
> and the manual was an early field version w/o many trouble-shooting
> suggestions. Thanks in advance for any Help!!

>

> Haven't had much time to operate or chase Fox ...been too busy on
> buildin' the house but I do get on the mobile on the way to and from
> work. Snagged a couple of Zombies thru all that 'erie' noise Friday
> nite. What was that stuff anyway?

>

> Steve/n0tu/QRP/m

Date: Sun, 01 Nov 1998 09:42:59 -0800

From: Monte Stark <ku7y@dri.edu>

To: QRP-L <qrp-l@lehigh.edu>

Subject: [23792] Band Condx

Message-ID: <363C9DA3.E2381C8B@dri.edu>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi All,

Wow, what a change in the band Condx!

>From the total wipe out on Friday night to the BEST I have ever heard
40m last night. EU stations were booming in well over S9.

That's no biggie for you eastern types but seldom happens for us out
here in the west!

Then this morning ALL the bands were open. And I do me OPEN.

On 10m there were stations from EU, AF, SA and OC all at S9 or better!

Ditto on 15 and 20.

I was working the poor rotor to death moving it all over the world.

I picked up 3 new ones in the past couple of days, 8Q7, 7Q7 and D2.

What are you wasting time reading this for? Go get em' :-)

Oh, the USA is also on the bands too. Again from all over!

cul,

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M

QRP ARCI #8829-----NorCal #330-----QRP-L #17-----ARS #49

AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Sun, 01 Nov 1998 12:47:03 EST

From: jalbertin@juno.com (Jerry Albertin)

To: qrp-l@lehigh.edu

Subject: [23793] Solar battery charger

Message-ID: <19981101.124451.4207.0.JAlbertin@juno.com>

I've been considering a solar 12 battery charging system for my qrp rig power supply.

Figured I would work off a 12 volt sealed lead acid in the evening when I home and while I'm at work during the day, daylight could be recharging my battery power supply. I noticed that Rad Shack offers a 5 watt 140 watt hour charger kit (special order #RSU 11931540) for \$79.99. Has anybody had any experience with this unit or doing a similar thing?

73...Jerry kg2jff

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 01 Nov 1998 12:12:57 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23794] Re: Ideas for using 300 ohm Twinlead?
Message-ID: <363CA4A9.218C24F7@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

This is old stuff, but when 300-ohm Twinlead first came out for TV in the 40's, hams were quick to snap it up for folded dipoles. We got around some of the moisture problems by coating the feedline with Johnson's paste wax. Seemed to help a bit. In those days, most rigs had final tank circuits that allowed quite a bit of reactance from the feedline system to be tuned out, so the moisture effects could be handled to a degree. But the wax doubtlessly helped!

72/73, George

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE #522 ARS 10-X 33.2 N 96.6 W EM13RE

ARDUJENSKI@aol.com wrote:

> DOESN'T LIKE RAIN: A lot of moisture changes the characteristics of the wire
> and alters your tuning values.

Date: Sun, 1 Nov 1998 14:55:04 -0500 (EST)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@lehigh.edu>
Subject: [23795] DK3 UPDATE 1-NOV-98 (very long)
Message-ID: <Pine.LNX.3.93.981101123808.757A-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

NOTE: IF YOU SUBSCRIBE TO QRP-L, AND ARE PART OF THE GROUP BUY YOU MAY GET TWO COPIES OF THIS MESSAGE. ONE FROM THE LIST AND ONE DIRECT. JUST DELETE THE "EXTRA" ONE. I DON'T WANT THIS MESSAGE TO MISS ANY OF THE DK3 GROUP BUY PARTICIPANTS. PLEASE PARDON THE DUPLICATION, TNX

Gang,

First, if you sent me a check, and don't have your DK3 yet, it's going out Monday. Yiiiipppppppppeeeeeeeeeee!!!!!! I finally have all the antennas for the -prepaid- orders. Spent yesterday getting them all boxed up, and just have to label them and fill out the UPS paperwork. I'll drop them off in the morning, while I take the long way to work. I feel much better knowing that I've finally made good to all those folks that sent me a check seven months ago. (it just seems longer)

Once they're gone, I'll email everyone individually with their tracking number so you can use the UPS web page to see how far it's gone. Some have shown up in two days, others are taking up to ten. Don't get too wound up if UPS doesn't update "your" number for a week. Nothing much happens while it's bouncing it's way west in a semi trailer.

For those that were worried about the shipping increase, no worries. I recycled some of DK's packing and got the rest by dumpster diving, *!*literally**! Slipped while I was on the rail of the cardboard recycling dumpster at work, and got to go in head first. Funny now, not funny at the time:) With the essentially free packing materials, I either made or lost about 50 cents on each DK3, and don't really care to figure out which way it went. I'll send an IRC to anyone who feels overcharged:)

The calls of those antennas leaving Monday 11/2/98:

W6JDB	AL7FS	WA4HHP
WA2YGY	W0DC	W5HNS
W5HIR	KB2VTN	K50I
W5RH X2	K5FX	W5YR
KU7Y	KL0MR	

(also, I have one set of instructions left over -thought I made just enough- so if I missed anyone, let me know and I'll mail it off or fax it out. I ain't opening those 15 packages again)

Shipped 10/20:

N5DUQ	N6MM	N10DL
W4FPJ	N4EO	K8EAA
WB2DHK	W1ME	

Shipped 4/15:

K10J	KQ4AL	WV3J
KB6NAE	AB5PC	

I got a letter from W6AAQ last week that says as long as he stays on the earth, and not in it, he should be able to have 25 more here by

Thanksgiving. That would cover all the orders I have since this thing started back in March, less the cancellations to date. I'll also get private email out to all those who have waited, since some have left the list and I don't want to leave anyone out. So, if you get some version of this twice, I apologize, but 25 more personal emails would chew up the rest of the day. Those on the waiting/wanting are as follows:

NT1R K5FO K8IQY KG2NO N3BJ K8QRP KS4L W3KC WA6PBY KB0REI
N2MS W6TOY VE7DXJ N2TO KE6VHM VE3CWB AA2YS KB0ROB KD3FG KD8G
K1MIJ N9WR WA2YGY KB6VIR W4BWS KA7YOU

I'd like to hear from everyone above via email, to know if you are still interested, and will be sending a check. I have quite a few people that want a DK3 "if anyone cancels". So letting me know if your still in, or out, would speed up this already unbelievably slow group buy.

Just some quick stats. 54 people in the group buy (was originally hoping for 10, but down from 65), 892 emails back and forth so far, two dozen letters between Don and myself, \$5400 dollars worth of antennas, (over \$8000 at retail), \$800+ of UPS shipping, almost 8 months since starting, flame emails -0-. Yup, not one flame in all that time. Not only is QRP-L an amateur radio economic power, hihi, you all are very patient ones at that. Many, many thank you's are due.

The trust in this group is overwhelming, I've been sitting on \$3500+ of other peoples money and I think I'm the only one who was nervous about it. I see-sawed on including the dollar numbers here, but I included the numbers, not to impress, but to stagger! This is fifty-some single unit parts, I can't imagine the work involved in 1000 radio kits!! So be nice to clubs that do us all an amazing favor by kitting "stuff".

Don wanted me to pass along some information, and ask a question of the group. He has a book available, "HF Mobileering" \$8+2 s/h from Worldradio 916-457-3655, and considering he's been mobile longer that most of us have had licenses (first HF mobile in 1948) it might not be a bad read:) The question was, what to cover the Z-match coil at the base of the antenna on the DK3. He's tried clear laquer, that rubber stuff you dip tool handles in, and some sort of boat resin. He's not happy with any of it yet. I'll be glad to pass on any hints anyone has.

I cheated a bit on moving myself to the end of the list, I moved to the end of the prepaid list and put one on my suburban:) This way I can answer questions, and I have one if someone come up with a DOA. Yeah, that's what I keep telling myself... This thing is wonderful! I only mounted it quick and don't have power to it, but what a quiet antenna. Not all the engine noise is gone, but it's remarkably reduced over a hamstick. It hears so much better, and when I reply to a CQ with a mighty 5W I *expect* that station to answer me <grin>. Once I get time to run

the power to it I'll give a little more detailed description of using it, but for now it's set on 7.040 and I'm having a blast.

I'm looking forward to hearing from y'all, but right now I gotta go put some addresses on a couple of boxes over there...

72 es many tnx

```
-- Chris Cartwright,   Technical Engineer   |       ccart@vidtel.com       --  
-- N3XRV      ARRL-VE   Norcal Zombie #163   |   Gaithersburg, MD FM19je   --  
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --
```

Date: Sun, 1 Nov 1998 12:13:12 -0700
From: jaywa5whn@juno.com
To: qrp-l@lehigh.edu
Subject: [23796] Socorro, NM Hamfest Nov. 7 reminder
Message-ID: <19981101.121318.4238.0.jaywa5whn@juno.com>

<http://www.ees.nmt.edu/sara/hamfest.html>

NA5N Paul {"Solar and Geomagnetic Storms" Pacificon fame & head curator for the Zombies}, KK6MC Jim {"Multiband Antennas", Ft. Tuthill fame & AL7FS's alledged twin, look at the photos, you be the judge} & N1IRZ Dave {"Morse for Morse Haters", Ft. Tuthill fame, a "round the world type of guy"} will all 3 be presenting their world famous lectures in Socorro, New Mexico {1.2 hours drive south of Albuquerque on I-25} on Nov. 7 {1500 UT to 2300 UT}

You will recognize the QRP folks, they will be the ones yelling at each other because their hearing has not returned to normal after the "Zombie Shuffle". They will be the crew headed for El Sombrero for a mean green chili stew. ;-)

N1FN Marshall from Milestone Technologies fame & fortune & Radio Paul WR7J will be there.

Talk in on the 146.68 MHz repeater {-600 KHz, 100 Hz pl}.

Email Al ac5bx@juno.com or Dave djohnson@nmt.edu if you have any questions.

3 out of the 5 grand prizes are QRP xcvrs.

72...Jay,

WA5WHN DM65qd Albuquerque, NM USA

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Date: Sun, 1 Nov 1998 14:38:42 -0500
From: "George Heron" <gheron@idt.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, <rattray@gpfn.sk.ca>
Subject: [23797] Re: W9GR DSP filter
Message-ID: <00d201be05cf\$7221f5f0\$873984a9@herong.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bruce,

The W9GR DSP-III filter is a pretty straightforward device, with a few small subtleties in operation.

First the obvious stuff. it goes in the audio path between the rig and the speaker. (Or use headphones in it's front panel jack.) The pushbutton to the right of the bar graph display should be OUT, meaning the filter is out of the circuit. Even with the the red power switch OFF, you should hear the normal receiver output. With the power ON, you have a nice amplified speaker.

Now with the right side pushbutton IN, the DSP is inserted into the path, and one of the 16 filters are in operation. I normally (only) use the CW filters, and my rig is set for 750 Hz offset and sidetone frequency, so those three positions of the 16-position rotary switch are the ones I use.

If I tune my rig to a congested frequency and push the right pushbutton IN to insert the filter, and use the widest bandwidth filter setting for 750 Hz (i.e., 200 Hz width), I notice a reduction in some of the QRM. I may have adjust the vfo slightly to bring the desired signal right to 750 Hz tone, and thus fully into the passband of the filter.

Then, if some QRM is still present, I can turn the 16-position dial to the 100 Hz width and notice a further reduction in interfering signals. Again, I might need to very carefully adjust the vfo to peak the desired signal in the filter passband (thus bringing it closer to 750 Hz that the filter is designed for.)

Lastly, if it's a *really* noisy band, with interfering signals very close to the one I'm trying to hear, I am able to flip the rotary switch to the 50 Hz width position and really knock out most everything ... but *really* have to carefully nudge the vfo to ensure the desired signal is in the filter passband. That 50 Hz window is so small, it doesn't take but a breath of air to move it out such that you think it's totally gone.

So therein lies part of the subtle nature of this filter, or of any tight CW filter ... when you get really narrow, the desired signal needs to be in it for you to hear it.

The other tricky part is that the DSP-III is designed for fixed offsets for it's CW filters: either 400 Hz, 600 Hz or 750 Hz. The point is that if your rig's offset and sidetone are not matched for any of these 3 center frequencies, the rig will be working against the filter and you may not hear many signals at medium or tight filter settings.

For example, if your rig was set for 600 Hz (as my Sierra started out with), you wouldn't be able to effectively use the nice 3 different widths of the 750 Hz filters because when the rig output itself peaks at 600 Hz (which is ostensibly the offset for your own Tx signal as well as your sidetone pitch), nothing will be getting through a filter centered on 750 Hz. You would need to adjust the sidetone pitch and Tx offset to 750 Hz to maximize the usefulness of your DSP-III.

BTW, the filter also has a feature to move this center frequency (if the BIO switch UP when the unit is turned on) around but I find it's difficult to do, imprecise, and it's not permanently retained. The BIO switch should be DOWN for normal operation of the CW filters.

Sorry for the length here, but these last points might not have been as obvious at the others. I've adjusted my Sierra as described and absolutely love the DSP-III for congested bands. Additionally, the filter is superb for bringing a weak signal up out of the mud, even when there are not a lot of interferingsignals. Outstanding results.

I don't do any SSB work, or RTTY, or use any of the other modes offered by the DSP-III, so I can't comment on operation of those.

Hope this helps.

72,

--George Heron, N2APB
n2apb@amsat.org in Sparta, NJ

Date: Sun, 1 Nov 1998 15:03:51 EST
From: DENNISMO@aol.com
To: qrp-1@Lehigh.EDU
Subject: [23798] Re: [CW] Memorizing answers
Message-ID: <eb0744af.363cbea7@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Glenn wrote:

> This is interesting.. I've never seen so many folks proud of passing tests and not knowing the material, via memorizing the answers. Until this topic came along on this reflector, I'd only heard hams bragging about that on the local 2m repeaters.

Oh well, that's ham radio in the 90's, I guess..

Glenn<

Hi Glenn ..

Yep, that is Ham radio in the 90's. That is the way it is and you and I can't do anything about. I suppose you did it the hard way and good for you. Some of us were not able to ask to take the "old" exam as it is no longer valid. So we will have to be statisfied with the "eazy - anybody-can-pass it" exam. You "old" timers that feel the same as Glenn are perhaps wold-class jumpers of conclusion. Why do you think that all newly upgraded hams have simply memorized the answers and have not studied the theory the old fashion way? Wow, something to think about, eh?

Of course, we as new hams or want-to-be hams, had the option to NOT take any

of the "new" exams and just say the heck to ham radio because THEY have just plain made it too easy for just anymore to pass. Then with the passing of all you old guys, ham radio would just die out. That sort of thinking is just another nail in the coffin where Amateur Radio will be layed out to rest!

Do you think that maybe I've taken this a bit personal..? Well, we are just tired of the same old BS. Let's just get back to Ham Radio in general, and QRP in particular and if you feel that you just have to judge someone DON'T! Instead warm up that rig and stike up a friendly conversation on the air, you'll feel better soon.

72 es 87 de Denny AD6EZ<><

Date: Sun, 01 Nov 1998 20:09:01 +0000
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: gheron@idt.net
Cc: QRP-L <QRP-L@lehigh.edu>
Subject: [23799] Re: W9GR DSP filter
Message-ID: <363CBFDD.1372@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

George Heron wrote:

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> would need to adjust the sidetone pitch and Tx offset to 750 Hz to maximize
> the usefulness of your DSP-III.

>

> BTW, the filter also has a feature to move this center frequency (if the BIO
> switch UP when the unit is turned on) around but I find it's difficult to
> do, imprecise, and it's not permanently retained. The BIO switch

George & other interested readers,

On the Sierra you can enable the sidetone only with a switch. This makes tuning the W9GR DSP filter easy.

In the tuning mode, the filter produces a slowly falling tone of its own (George will know this, but others may not). This tone is at the frequency the filter will be tuned to if you switch to another filter position at that precise moment. The falling tone interferes with the sidetone coming from the rig. You will be able to hear zero beat

approaching and can stop the tuning process at the right moment.

For details of how I enable the Sierra's own sidetone without keying the TX, see a recent issue of QRPP.

73, OH2ZAZ

--

Arjen Raateland
SAS Support
Finnish Environment Institute, Helsinki

AX.25: OH2ZAZ@OH2RBI.FIN.EU

Date: Sun, 01 Nov 1998 15:38:44
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [23800] Tayloe Mixer, X4 VFO thoughts
Message-ID: <3.0.3.16.19981101153844.11bfa5ea@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy Gang,

Dave, NN1G looked into the Epson clock mult. chip and found it has very poor phase noise. It uses an internal RC osc which is good enough for digital work, but not for radio LO's :-)

I wouldn't want to do a X4 multiplier anyway, it would be hard to keep the fundamental out of the front end of the radio! X2 would probably be okay. Some kind of PLL circuit will be required though. (if you want to go above 40 M) I'm thinking of one with a VFO on the reference clock input. The /N would be changed only to change bands. It gets complicated though, as when you change the /n ratio, the tuning range on the Ref input also changes. A mixing scheme could work, but that gets complicated too. Multi band radios are such a pain...

Right now I'm using a DDS VFO, which is one reason my noise figure is so good. But even the 9850 can only go to 50 Mhz, limiting the input freq to just over 10 Mhz.

For those that requested my board layout and a schematic, I may have overstepped my bounds on making that offer. This is Dan's baby, and I'll wait to hear from him if it's okay to distribute the info. The detector scheme is patent pending, and the lawyers may have fits :-)

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sun, 1 Nov 1998 14:24 -0600
From: wr.moore@worldnet.att.net
To: qrp-1@Lehigh.EDU
Subject: [23801] NOT QRP - need Chat (IRC) help
Message-ID: <19981101203145.LWXW8489@Inbox>

I have signed up to review an IRC client and need someone to "chat" with. I've seen posts related to this in the past, but didn't save any of them. If someone could "meet" me on a channel tonight sometime and let me try out some features of this client, I'd really appreciate it. Just e-mail me directly and propose a time, preferably between 7:00 and 10:00 PM CST. Also propose a channel and server (not sure if the server matters?? - you can tell I'm new at this :-)

Tnx for the bandwidth es 72,
Randy, KS4L

Date: Sun, 01 Nov 1998 13:39:05 -0700
From: Andy Fox <foxes@theriver.com>
To: jalbertin@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23802] Re: Solar battery charger
Message-ID: <363CC6E9.CA817879@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Jerry,

I have a Unisolar USF-5. I like it a lot. It costs a little more (~\$100) but it's a very high quality module. It's flexible and light weight.

Mike Bryce (SunLight Energy Systems) has them. Check out:
<http://www.seslogic.com/>

The Unisolar data is at:
<http://www.ovonic.com/flex.html>

Keep in mind that there is a blocking diode in series with the solar panel, so 0.4V must be subtracted from the 16.5V "typical voltage."

I have found the 16.1V output adequate for my needs.

Andy, KK7HV

Date: Sun, 01 Nov 1998 21:18:51 GMT
From: nhoop@centuryinter.net (N H)
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [23803] The Amazing and Wonderful FCC...My Friend
Message-ID: <363dccc.b.28941354@mail.ot.centuryinter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

A while back I decided I didn't like my new KM5QU call and submitted an on-line form to the FCC with 25 different combinations of N's, A's and T's. Quite a while went by and I finally realized I hadn't submitted the required #159 "Remittance Advice form" OR the \$13.00 remittance itself. As I recall the FCC instructions noted that if the money wasn't properly submitted, they would just ignore the request. AGGGH!

So I start all over again. The 159 form was incomprehensible; "Lockbox #"?, "Payment Type Code"? I gave up in disgust. KM5QU would just have to do.

Yesterday, my new license arrived in the mail.

Yes..God DOES work in mysterious ways.

72 NA5NA nat
Oxford, Arkansas
USA

U'm..."Nana Radio"? I think I'll let sleeping dogs lie.

Date: Sun, 1 Nov 1998 15:09:19 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>

To: N H <nhoop@centuryinter.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [23804] Re: The Amazing and Wonderful FCC...My Friend
Message-ID: <Pine.SOL.3.91.981101150741.13810A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 1 Nov 1998, N H wrote:
> Yesterday, my new license arrived in the mail.
>
> 72 NA5NA nat
 ^^^^

And a nice call, too :-)

72, Paul NA5N

Date: Sun, 01 Nov 1998 16:58:39 -0600
From: Michael Melland <badger@vbe.com>
To: qrp-1@Lehigh.EDU
Subject: [23805] BEAM - RE:Ideas for 300 ohm Twinlead
Message-ID: <363CE79F.5C93@vbe.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey !

Funny I should see this heading. I'm just reading an article in the January 1971 QST (page 40) titled "Five for Five" or "Five Decibels for Five Bucks". It is construction details and evaluation of a 2 element beam called a "Shortened ZL-Special" using folded dipoles, one as the driven element and the other as the reflector.... both being fed, approx. 3/8 wave length long. The beam was constructed out of 2 X 2 fir and 300 ohm twinlead and bamboo fishing poles. Resulting antenna was designed with 14.175 as the design frequency (2:1 swr) but also had swr of 1.5:1 at 21.260 ! And they think it will operate on 10 meters as well. They estimated forward gain at 5 dB and front to back at 20 dB

Looks like a neat antenna.... and real easy to make..... hmmmmmm.

--

Michael Melland, KB9QHU
Winneconne, Wisconsin, USA
FISTS #4387, 10-10 #69281, QRP-L #1656
CW, SSB, and Electronics
List Administrator: grundig@qth.net
<http://www.vbe.com/~badger>
<http://www.qsl.net/kb9qhu>

Date: Sun, 1 Nov 1998 18:05:51 EST
From: RangerSF5@aol.com
To: QRP-L@lehigh.edu
Subject: [23806] Thanks To All
Message-ID: <2a91102.363ce94f@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I just want to say thank you to all who responded to my quest for the
ultimate.
The Magnets.
When you need information, this list is sure to have a few who can steer you in
the right direction.
Again, Many thanks
Bob
WA2HOQ

Date: Sun, 1 Nov 1998 18:22:09 EST
From: RangerSF5@aol.com
To: Qrp-l@lehigh.edu
Subject: [23807] 40-M qrp for sale
Message-ID: <fc9f1601.363ced21@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang.
I have one goodie here.
TAC-1 for 40-M, just back from S&S
The rig had a full realignment and a 3906 replaced with a different type for
less RX noise.
Built in tick keyer, has a speaker with a switch that lets you toggle from

phones to speaker.

4.55 watts output as measured on the RS digital SWR/WATT meter into a dipole.
LCD readout, 200 Hz CW filter, RIT, tune button with the keyer setup button the rear. Also has jack for your own keyer.

A bit over 5 watts into a dummy load.

\$175.00 shipped.

Reply direct.

Thank you

Bob

WA2HOQ

Date: Sun, 1 Nov 1998 16:56:43 -0500

From: nilsbull@juno.com (Nils R Young)

To: QRP-L@lehigh.edu

Subject: [23808] An interesting QSO on 30m

Message-ID: <19981101.165654.12390.2.nilsbull@juno.com>

Troops,

I finished off a QSO a few minutes ago with Bert, AK4G, down in Harvest, AL. He was callin' CQ and signin' *?QRP and it took me at least 10 minutes to find all the wires to hose up the Argosy to talk to him. But when I finally figured out which hose went where & got all the 'trons flowin' in the right direction, we talked for maybe 30-40 minutes.

Bert was runnin' a Ten Tec kit radio & I was runnin' the Argosy @ 5 watts. We joked about some stuff, about antennas & radios & how it didn't take long for two guys havin' a QRP QSO to attract about 800 idiots with no ears & big hootie powa. So Bert turned on his Omni (I think . . . I was doin' head-copy & didn't take many notes) & I flipped the little switch on the back of the Argosy & we went on.

Last I heard him, he was QSOin' with somebody /4. I'd come inside to see how the pork roast & sauerkraut vass doin'gk & heard him on ze Sierra.

Pretty neat. What's weird though, was when I called Bert, he came back right away with "r nils tks fer the call . . ."

How'd he know my name so quick?

73

Nils

Nils R. Bull Young

La Estancia de los Guajolotes Sonrientes: The Grinnin' Turkey Ranch

WB8IJN &c :: The Tagalong Press :: email to nilsbull@juno.com
<http://www.geocities.com/Athens/Olympus/9172>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 01 Nov 1998 16:32:35 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: qrp-l@lehigh.edu
Subject: [23809] DX Again! D2BB
Message-ID: <363CEF93.5FF5E603@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

Just wanted to brag a bit. Just nailed D2BB who was calling DX at 14010 using the OHR 400 at 4 watts into 125 foot twin lead fed inverted V up 35 feet. First call and he was running split up 1K. By the way, with all of the pile ups that have been on the FOX (I have not participated yet), there is no way that you can expect to NOT work split. If you want to try, go for it, but being the fox and not working the RIT is just killing your chances for working more hounds.

Jess

--
Jess N0TFI <><
<http://www.concentric.net/~jessqrp> Personal Home page
<http://qsl.net/n0tfi/bug.html> Bug Stories

End of QRP-L Digest 1263

